

**Abstract of the Disclosure**

**ANNULAR ANTENNA AND TRANSPONDER APPARATUS AND  
METHOD OF DISPOSITION IN PNEUMATIC TIRES**

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An annular antenna loop is electrically coupled to a transponder. The antenna and the transponder are at least partially embedded into a non-conductive carrier strip to form a ring assembly to render the antenna and transponder package unitarily transportable. The annular assembly affixes to a tire in a post-manufacture attachment procedure and at a location that minimizes exposure of the annular apparatus to strain and to electromagnetic interference from the metallic wheel rim.

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